

Custom Cavity Filter Specifications



Wireless 2 Wireless

Wi2Wi CF-Series Filters are evanescent mode Custom Cavity Filters. These can be customized to your particular requirements and applications. The CF-Series Filters can be manufactured in Bandpass and Bandstop (Notch) configurations. Wi2Wi will provide rapid prototyping of custom frequencies and bandwidths for your prototyping needs, mass production capability, and competitive pricing.

CF1575.15B4A350.0AA1

ex) CF—1575D15—B—4—A—350D0—AA—1

CF = CAVITY FILTER
SERIES

CENTER FREQUENCY
(MHz)
(With D designating
decimal point)

FILTER TYPE
B = Bandpass
N = Bandreject
I = Interdigitated

OF SECTIONS

BANDWIDTH
DESIGNATION
A = 3dB
B = 1dB
C = 0.5dB
D = Special

BANDWIDTH
(MHz)
(With D designating
decimal point)

CONNECTOR
DESIGNATION
(INPUT/OUTPUT)
(See Chart Below)

IMPEDANCE
DESIGNATION
1 = 50Ω
2 = 75Ω
3 = Special

Filter Applications and Performance Ranges

Primary Applications

Ground-Based RADAR , Radio Receivers , Radio Transmitters , Base Station Systems

Electrical Specifications

Frequency Range	400MHz to 20,000MHz
Percentage Bandwidth (assuming bandpass application)	0.5 to 60%
Return Loss	14dB Typical
Input Power	10 Watts, Standard

Types, Responses and Topologies

Filter Types Available	Bandpass , Cross-Coupled Bandpass , Bandreject
Typical Filter Responses	Chebyshev , Butterworth , Bessel , Linear Phase
Topologies	Single , Multiplexer , Interdigital , Custom Configurations

Standard Environmental Specifications

Operating Temperature Range	0°C to +70°C, Typical
Storage Temperature Range	-55°C to +125°C, Typical
Humidity	0 to 95%, Non-Condensing
Vibration	Up to 5 G's
Shock	Up to 5 G's
Altitude	Up to 70,000 Feet

Connector Chart

Connectors	Code
SMA Jack	A
SMA Plug	B
N Jack	C
N Plug	D
BNC Jack	E
BNC Plug	F
TNC Jack	G
TNC Plug	H
SMB Jack	I
SMB Plug	J
SMC Jack	K
SMC Plug	L
7/16 DIN Jack	M
7/16 DIN Plug	N
SMT	P
Thru Hole	Q

An "R" designation will be used to indicate a right angle connector configuration

An "X" designation will be used to indicate a non-standard or custom configuration

REV: NA

SIZE: A

CAGE: A

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